

Formal Instruction and Its Effects on the Acquisition of English Affricate Consonants

by Weda Sukardi

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Formal Instruction and Its Effects on the Acquisition of English Affricate Consonants

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Abstract

Indonesian and English have some differences dealing with their symbols or phonemes in the points and manner of articulation. On the other hand, they have the same symbols and phonemes in affricate consonants, voiceless alveolar-palatal /tʃ/ and voiced alveolar-palatal /dʒ/. This study therefore aims to find out whether formal instruction improve the acquisition of English fricative consonants by Indonesian learners of English. The study employed quasi experimental design, the nonequivalent control group design. It used two groups, one received treatment (formal instruction) and another group was taught conventionally. The population of this study is students of English Literature Study Program Faculty of Languages and Literature Universitas Negeri Makassar Indonesia. There were 64 students participated as subjects of this study. The subjects ranging from 17 – 19 years old attended an English phonology subject in 2016/2017 academic year. The study reveals that formal instruction improves the acquisition of English affricate consonants by Indonesian learners of English. There are two main conclusions of this study. The first one is that the Indonesian learners of English met difficulties in transcribing English affricate consonants [tʃ] and [dʒ] in pretest, either for control group or experimental group. The second main finding as the primary concern of this study is that the formal instruction improved students' acquisition of English affricate consonants [tʃ] and [dʒ], where the subjects' answers toward the list of words significantly improved.

Key words: *Formal Instruction, Affricate Consonants, English, Tertiary Level*

Introduction

English is an international language and becomes instructional language in science and technology distribution. It therefore becomes language for knowledge sharing in international arena. To be competent in English, is not an easy job. This is because English presents many difficulties with regard to its skills and elements. One of those elements is the pronunciation.

English has different spelling and its pronunciation. This phenomenon becomes primary problem for learners of other language speakers, including the speakers of bahasa Indonesia. English and Indonesian have voiceless alveolar-palatal /tʃ/ and voiced alveolar-palatal /dʒ/. The primary problems made by Indonesian speakers or learners of English are they felt difficulties in transcribing and pronouncing those symbols or segmental phonemes. The difference in phonetic classification and symbol overlooks subsegmental difference in aspiration that exists between the two. In English there are many sounds symbolized by palato-alveolar /tʃ/ and /dʒ/. These sounds make difficulties to Indonesian speakers of English.

It is argued that the pronunciation problems encountered by Indonesian learners of English occur because the way of pronouncing English and Indonesian language is different. Roach (1987) says that one of the things that everybody knows about language is that they have different accents. He adds that languages are pronounced differently by people from different geographical places, from different social classes, of different ages, and different education background and absolutely from different culture. As an international language, English presents some varieties in terms of its pronunciation used by people from various regions. So that, the learners of English needs to know the correct accents and pronunciations used by the speakers of standard English in other they can maintain good communication to others. If not, they cannot express and understand utterances from others. Gilakjani (2011) argues that pronunciation is one of the most intriguing skills in English language teaching at the classroom setting. He therefore adds that if the speakers have bad pronunciation, their speech will not be understood by other people and potentially causes misunderstanding.

Advanced foreign language (FL) learners' difficulties in conveying their message to native speakers may, however, relate less to their vocabulary, grammatical, or phonological errors than to their way of structuring oral discourse in all levels of communication (Maeno, 1995). Maeno therefore says that producing culturally appropriate extended discourse units is perhaps the most challenging aspect of foreign language (FL) acquisition and language learning.

The difference in pronunciation makes second language (L2) or foreign language (FL) learners difficult to speak the L2 or FL. The language learners also consume lots of time in the early process of language learning because they need some adjustments. Their native language pronunciation is different with second language (L2) or foreign language (FL), therefore they employ their native language pronunciation in the target language which so called interference. Hassan (2014) concludes in his study that factors such as interference, the differences in the sound system in the two languages, inconsistency of English sounds and spelling militate against Sudanese students of English competence in pronunciation.

The difficulties of understanding language elements in English cause some English learners demotivate to learn English as a foreign language (EFL) in Indonesia. One of the causes of the students' low interest and motivation to learn English is its elements (grammar, vocabulary, and pronunciation). So that serious attention on pronunciation needs to employ in the learning and teaching process in the English as a foreign language (EFL) classroom. In keeping with this, Chan and Li (2000) argue that pronunciation errors which affect intelligibility or create communication problems should be given priority in remedial teaching in all levels of teaching English as a foreign language (EFL) or English as a second language (L2).

To improve students' pronunciation, there are lots of methods, approaches, strategies employed by the teachers in the classroom setting. One of those methods is formal instruction.

Formal instruction has been employed by some researchers in their study which shows the positive effect on pronunciation (Elliot, 1995 and González-Bueno, 1997).

Based on the issues as previously stated, this present study confines its investigation to the acquisition of affricate consonants of the English literature study program Faculty of Languages and Literature Universitas Negeri Makassar, Indonesia. It is in relation with the English phonology and pronunciation, segmental phoneme in particular, affricate consonants /tʃ/ and /dʒ/ are interesting phenomenon in language learning made by interlanguage speakers. Hence, this present study is not concerned with such issues as error analysis.

Therefore, the key research question underlying this study is "Does formal instruction improve students' acquisition of affricate consonants at the English literature study program, Universitas Negeri Makassar, Indonesia?".

Review of Literature

2.1 Previous studies

Some studies have been conducted by researchers in any languages using formal instruction. Elliot (1995) reported in his study that neither foreign language (FL), nor subject concern for pronunciation accuracy, were significant predictors of improvements in pronunciation under formal instruction.

Mora and Fullana (2007) revealed in their study that neither starting age nor experience had a significant effect on how accurately participants perceived and produced the two vowel contrasts, although a late starting age advantage was observed as suggested by previous research conducted in formal instruction settings.

Elliot (1997) found that his study imply a need for formal phonological instruction at the intermediate level. He added that the findings suggest that teaching pronunciation to adults is beneficial in the acquisition of Spanish pronunciation as evidence by the experimental group subjects' overall improvement in pronunciation over the course of the semester.

Bui (2016) showed that the EFL learners' problems in pronouncing /θ/ and /ð/ need attention from the teachers. Along with giving proper instruction, the teachers can acknowledge the students about the possible mistakes they might make. Moreover, it is significant to create an environment in which the students can feel confident and motivated to make use of their English on a regular basis. These studies show the benefits of the inclusion of formal instruction in improving learners' pronunciation in L2 classroom. Similarly, this study examines whether the formal instruction can improve students' pronunciation in fricative consonants.

González-Bueno (1997) demonstrates that after receiving formal instruction in the pronunciation of Spanish stops, subjects of the experimental group produced Spanish stops with VOT duration at the post test were shorter than the VOT duration of stops produced at the pretest. He adds that formal instruction can account for the improvement in the pronunciation of only these two sounds, /p/ and /g/. However, it would appear that the trend towards improvement in the pronunciation of the remaining stops /b, t, d, k/ by the experimental subjects is also due to formal instruction in the pronunciation of these Spanish sounds. The conclusion of González-Bueno's studies is that the experiment seem to be an indication of some positive effect that formal instruction has on the improvement of the pronunciation of Spanish stops.

2.2 English and Indonesian consonant sounds

English and Indonesian consonant sounds can be classified according to their manner of articulation and their place of articulation. There are 20 consonants in Indonesian as revealed in table 1 and there are 24 consonants in English as illustrated in table 2.

2.2.1 Indonesian consonant sounds

Table 1. Indonesian consonant sounds (Soderbeg, 2008)

	Bilabial	Labio-dental	Dental	Alveolar	Post-alveolar	Palatal	Velar	Glottal
Plosive & affricate	p b		t̚	d	tʃ dʒ		k g	(ʔ)
Nasal	m			n		ɲ	ŋ	
Flap/trill				r				
Fricative		(f)		s (z)	(ʃ)			
Approximant	w					j		
Lateral approximant				l				

2.2.2 English consonant sounds

Table 2. Chart of English consonant phonemes (Roach, 1987), (Díaz-Campos, 2004)

	Bilabial		Labiodental		Dental		Alveolar		Palato-alveolar		Palatal		Velar		Glottal	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Plosive	p	b					t	d					k	g		
Fricative			f	v	θ	ð	s	z	ʃ	ʒ						h
Affricate									tʃ	dʒ						
Nasal	m						n						ŋ			
Lateral							l							ɫ		
Flap									r							
Approximant									ɹ	ɻ						
Glide	w										j					

2.3 The affricates of English

The affricate consonants in English can be seen in the table 3 below:

Table 3. The affricate consonants of English

	Palato-alveolar
Fortis (Voiceless)	tʃ
Lenis (Voiced)	dʒ

2.3.1 Affricate Consonants

Affricates [tʃ] and [dʒ] are produced by a stop closure followed immediately by a gradual release of the closure that produces an effect characteristic of a fricative (Fromkin and Rodman, 2007). They therefore argue that the palatal sounds that begin and end the words *church* and *judge* are voiceless and voice affricates, respectively. tʃ and dʒ are the only two affricate phonemes in English and the voicing characteristics are the same as for plosives and most of the fricatives (Roach, 1987). Roach adds that the place of articulation is the same as for ʃ and ʒ, that is, palato-alveolar. This means that the t component of tʃ has a place of articulation rather further back in the mouth than the t plosive usually has.

Gimson (1985) gives examples and description of palato-alveolar affricates as follows:

(1) Examples

/tʃ/- *fortis* (spelt *ch*, *tch*, *t + ure*, *eous*, and *t + ion* when *t* is preceded by *s*, e.g. 'chain, watch, nature, righteous, question')

word initial-cheese, chin, charge, churn, choke, cheer

word media (intervocalic)-feature, richer, wretched, orchard, butcher, nature, merchant

(*consonant preceding*)- gesture, posture, mischief, juncture, capture, lecture, pilchard, culture, adventure

word final-wretch, catch, larch, porch, much, coach

(*consonant preceding*)-inch, conch, bench, branch, filch, mulch

/dʒ/- *lenis* (spelt *j*, *g*, *dg*, sometimes *gg*, *dj*, *de*, *di*, *ch*, e.g. 'jam, gem, midget, suggest, adjacent, grandeur, soldier, Norwich')

word initial-gin, jest, jar, jaunty, Jew, jerk, joke, joist, jeer

word medial (intervocalic)-midget, ledger, margin, fragile, urgent, orgy, adjacent, agenda, major

(*consonant preceding*)- avenger, danger, stringent, soldier, Belgian, bulges, object

word final-ridge, edge, large, dodge, judge, huge, age, doge, gouge

(*consonant preceding*)-bilge, bulge, hinge, sponge, change

Compare /tʃ/, /dʒ/-chin, gin; chest, jest; choose, Jews: choke, joke; cheer, jeer; catcher, cadges; nature, major; a venture, avenger; richer, ridges; leech, liege; larch, large; perch, purge; lunch, lunge; cinch, singe; beseech, besiege

(2) *Description*. – The soft palate being raised and the nasal resonator shut off, the obstacle to the air-stream is formed by a closure made between the tip, blade, and rims of the tongue and the upper alveolar ridge and side teeth. At the same time, the front of the tongue is raised towards the hard palate in readiness for the fricative release.

Research Method

3.1 Experimental Design and Methodology

This present study employed quasi-experimental design, the non-equivalent control group design. It used two groups, one received treatment (formal instruction) with systematic ways and another group was taught conventionally with little exercises and practices. The hypothesis that the current study tests is: Formal instruction enhances students' acquisition of English pronunciation in voiceless alveolar-palatal /tʃ/ and voiced alveolar-palatal /dʒ/. The experimental group was the class B of the English Phonology class and the control group was the Class A of the English Phonology subject. The data in this study were obtained from the first semester students

of English Literature study program Faculty of Languages and Literature Universitas Negeri Makassar, Indonesia who attended English Phonology subject in 2016/2017 academic year. There were 64 students who participated as subjects of this study. The subjects ranging from 17 – 19 years old. The demographic characteristics of the students is illustrated in Table 4.

Table 4. Demographic characteristics of the students

Demographic characteristics	n	%
Age	64	100
17 - 19		
Gender		
Male	17	25.56
Female	47	73.48

3.2 Variables of the Study

There were two variables in this study, independent variable and dependent variable. Formal instruction as independent variable and students' acquisition of affricate consonants as dependent variable of the study.

3.3 The Test

There were two test employed in this current study, the pre-test and post-test. The pre-test was administered at the beginning of the study to find out preliminary data and the post-test was administered at the end of the study. There was treatment given to the experimental group between pre-test and post-test. The treatment is "formal instruction" in which the instructional pattern was given dealing with the theoretical and practical introduction of affricate consonant sounds in English (voiceless alveolar-palatal /tʃ/ and voiced alveolar-palatal /dʒ/).

3.4 Procedure of Data Collection

The data were collected using a written test. The data obtained from the written test were checked and analyzed to enable the researchers to identify the correct and incorrect pronunciation of English affricate consonants made by the students. The significant source for actual English affricate transcription was Oxford Advanced Learner's Dictionary of Current English by Hornby (1987).

3.5 Data Analysis

The pre-test and post-test of experimental group and control group were analyzed using Statistical Package for Social Sciences (SPSS) IBM SPSS Statistics 20 showing the t-test, mean, standard deviation (SD), percentage, and histogram.

Findings and Discussion

T-test of significance (t-test) was employed to test the hypothesis. This test was used to identify the significant difference between the results of students' mean score of the students who taught

the subject using formal instruction and the students who taught the subject using conventional way.

Table 5. The frequency and percentage of students' answers in pretest for control group

Control					
Students' Answers	Frequency	Percent	Valid Percent	Cumulative Percent	
	.00	30	93.8	93.8	93.8
Valid	1.00	1	3.1	3.1	96.9
	4.00	1	3.1	3.1	100.0
Total	32	100.0	100.0		

As shown in table 5 that from 32 subjects, there were only 1 or 3.1% of the students gave one correct transcription to the list of word to identify the transcription of affricate consonants in the word. There were only 1 or 3.1% of the students gave four correnct transcriptions to the list of words. In pretest for control group, there were 30 or 93.8% students did not give correct response at all to the list of words. May be because, the students did not learn the word transcription at secondary schools.

Table 6. Frequency and percentage of students' answers in pretest for experimental group

Experiment					
Students' Answers	Frequency	Percent	Valid Percent	Cumulative Percent	
	.00	30	93.8	93.8	93.8
Valid	3.00	1	3.1	3.1	96.9
	4.00	1	3.1	3.1	100.0
Total	32	100.0	100.0		

Table 6 reveals the frequency and percentage of students' answers in the pretest for experimental group in the study. From the table, we can see that there were 30 students or 93.8% did not respond the list of words correctly. There was 1 or 3.1% of the students gave three correct answers and there was 1 or 3.1% of them gave four correct answers to the list of words showing English affricate consonants.

Table 7. Frequency and percentage of students' answers in posttest for control group

Control				
Students' Answers	Frequency	Percent	Valid Percent	Cumulative Percent
.00	23	71.9	71.9	71.9
1.00	2	6.3	6.3	78.1
2.00	3	9.4	9.4	87.5
3.00	3	9.4	9.4	96.9
4.00	1	3.1	3.1	100.0
Total	32	100.0	100.0	

Table 7 shows the frequency and percentage of students' answers in the posttest for control group. It is clearly stated in the table that there were 23 or 71.9% students did not respond the list of words correctly. This means that 71.9% of the subjects could not identify the correct transcription of the English affricate consonants [tʃ] and [dʒ]. There were 3 or 9.4% gave 2 correct and 3 correct transcription respectively. There were 2 or 6.3% students gave 1 correct transcription and there was 1 or 3.1% student gave 4 correct transcription towards the list of words containing English affricate consonants [tʃ] and [dʒ].

Table 8. The frequency and percentage of students' answers in posttest for experimental group

Experiment				
Students' Answers	Frequency	Percent	Valid Percent	Cumulative Percent
.00	16	50.0	50.0	50.0
1.00	5	15.6	15.6	65.6
2.00	2	6.3	6.3	71.9
3.00	6	18.8	18.8	90.6
4.00	3	9.4	9.4	100.0
Total	32	100.0	100.0	

Table 8 illustrates the frequency and percentage of students' answers in posttest for experimental group. In this table, we can see that there were some changes or improvement in the students' transcription towards list of words containing English affricate consonants [tʃ] and [dʒ].

As revealed in table 6 that there were 30 or 93.8% of students who gave incorrect answers decreased to 16 or 50% (table 8). This means that there were 16 or 50% students could respond the list of words containing English affricate consonants correctly. There were 3 or 9.4% students gave 4 correct transcription, 6 or 18.8% students gave 3 correct transcription, 2 of them or 6.3% gave 2 correct transcription, and 4 of them or 15.6% gave 1 correct response.

Table 9. The mean and standard deviation of control and experimental group

Descriptive Statistics					
Group	N	Minimum	Maximum	Mean	Std. Deviation
Control	32	.00	4.00	.6562	1.18074
Experiment	32	.00	4.00	1.2188	1.47527
Valid N (listwise)	32				

Table 9 reveals that the mean score of control group in posttest was 0.6562 with standard deviation was 1.1807 and the mean score of experimental group in posttest was 1.2188 with standard deviation was 1.4752.

From the descriptive and inferential statistics, we can see that there was significant improvement of students' affricate consonant acquisition after giving formal instruction in the classroom setting. The mean scores of the pretest and posttest of both experimental and control group are shown in chart 1, 2, 3 and 3 and the significance improvement is revealed in table 10.

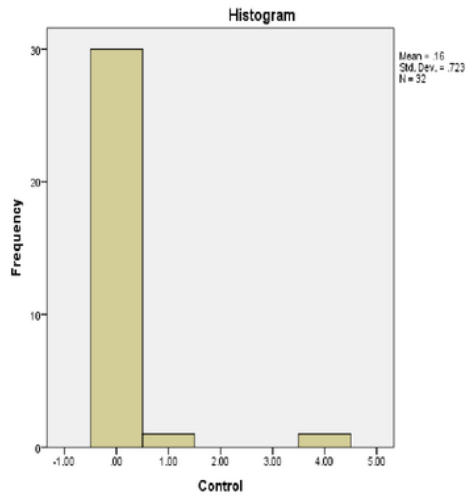


Figure 1. Histogram of mean and std. dev. of control group in pretest

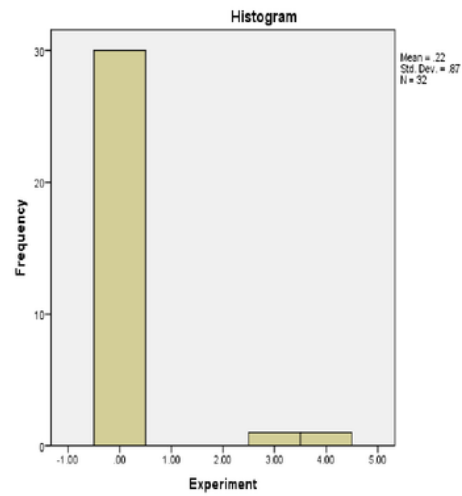


Figure 2. Histogram of mean and std. dev. of experimental group in pretest

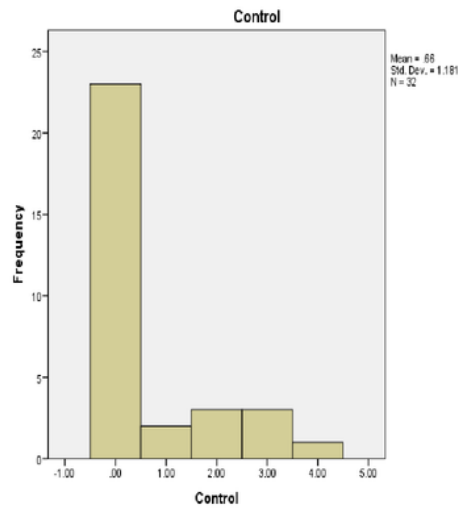


Figure 3. Histogram of mean and std. dev. of control group in posttest

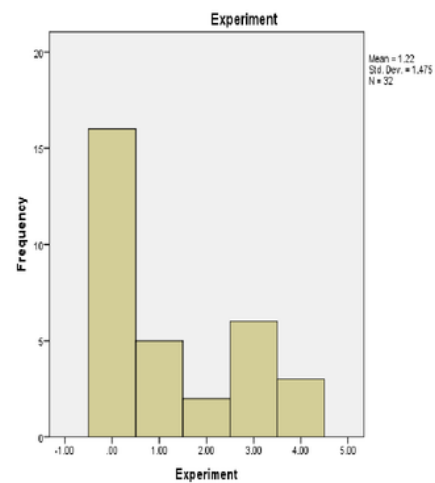


Figure 4. Histogram of mean and std. dev. of experimental group in posttest

Table 10. The difference of mean score between posttest of experimental and control group

Consonant Acquisition	Mean Score		Difference	P. Value
	Experimental	Control		
Affricate Consonants	1.2188	0.6562	0.5626	0.000

Table 10 shows that the probability value was 0.000 is smaller than 0.05 at the level of significance ($0.000 < 0.05$). This means that there is a significant difference between control group and experimental group in posttest. This reveals that the acquisition of English affricate consonants of the students of experimental group is significantly higher than the control group after treatment.

Conclusions and Suggestions

There are two main conclusions of this study. The first one is that the Indonesian learners of English met difficulties in transcribing English affricate consonants [tʃ] and [dʒ] in pretest, either for control group or experimental group. The second main finding as the primary concern of this study is that the formal instruction improved students' acquisition of English affricate consonants [tʃ] and [dʒ], where the subjects' answers toward the list of words significantly improved in post-test. ²

The educational implication of the study is that the pronunciation practice by employing formal instruction in the classroom setting with a wide variety of theoretical and practical introduction of affricate consonant sounds is highly recommended to the teachers at tertiary levels and secondary schools in Indonesia. The teachers need to be aware of students' acquisition of English affricate consonants [tʃ] and [dʒ] when Indonesian learners of English begin formal instruction. It is important to note that the results of our study reveal that the formal instruction improved students' success in acquiring English affricate consonants.

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